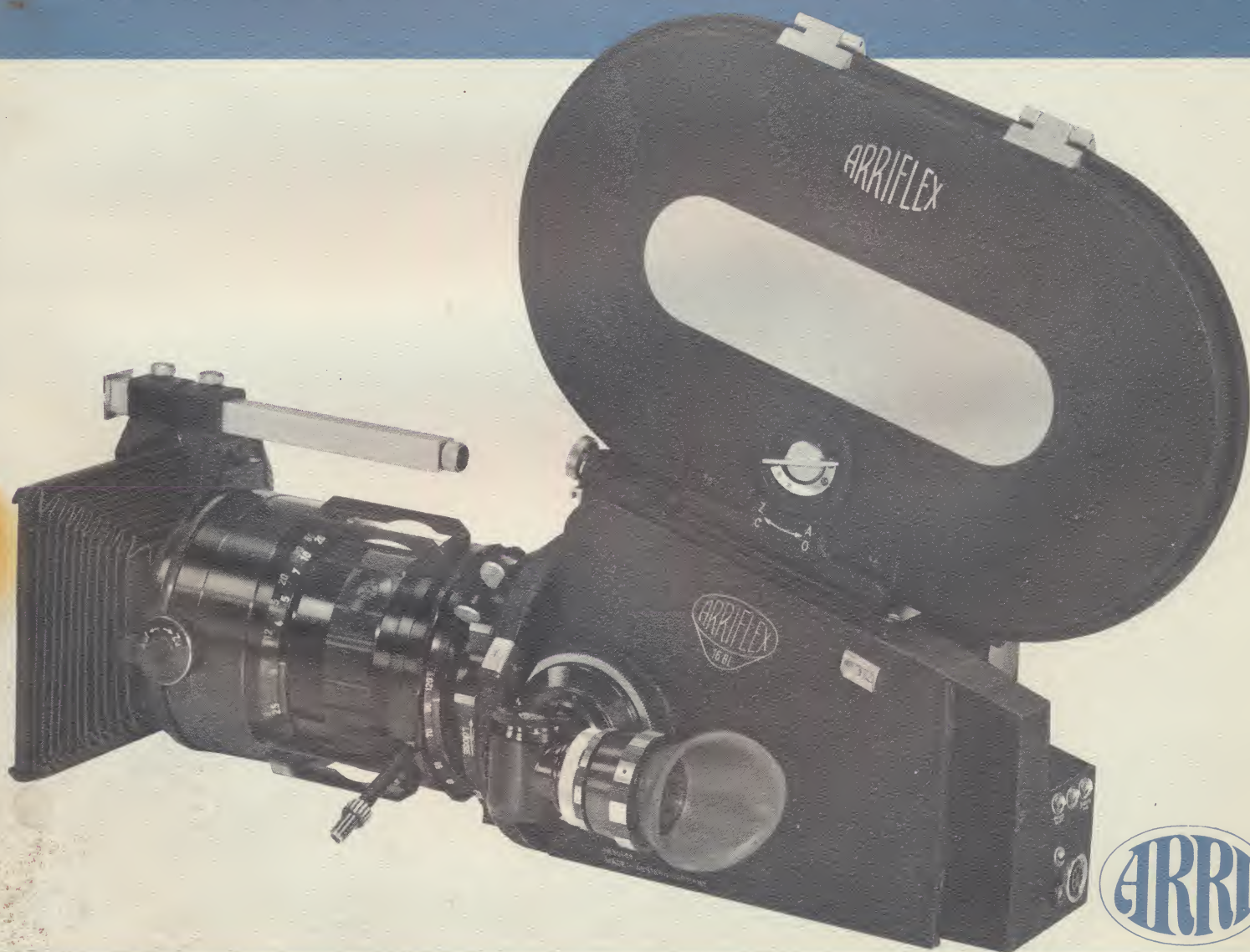


Quiet...

for the finest 16mm sync-sound filming



ARRIFLEX CORPORATION OF AMERICA • NEW YORK • HOLLYWOOD

ARRIFLEX® 16BL

THE NEW COMPACT LIGHTWEIGHT SELF-BLIMPED CAMERA



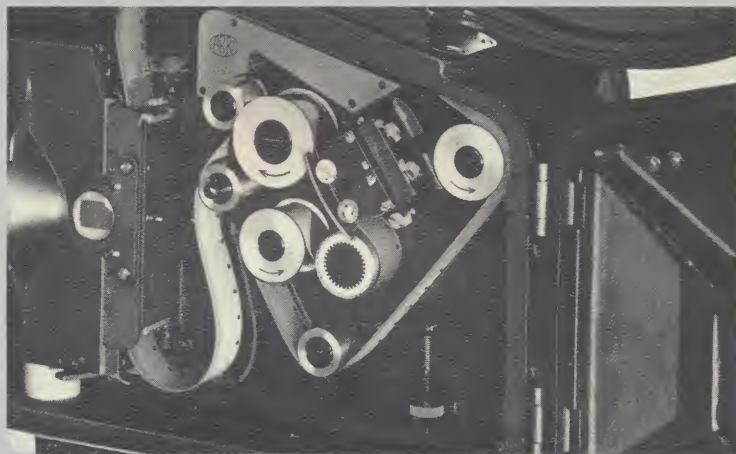
SINGLE SYSTEM magnetic sound

The Arriflex 16BL, equipped for single system sound, is available both as original equipment and as an installation for 16BL production models† already in the field. Sound conversions may be made to all these cameras by the cameraman at any time **without** special tools. The Arriflex 16BL's convertible design provides the filmmaker with **exactly** the sound capability needed.

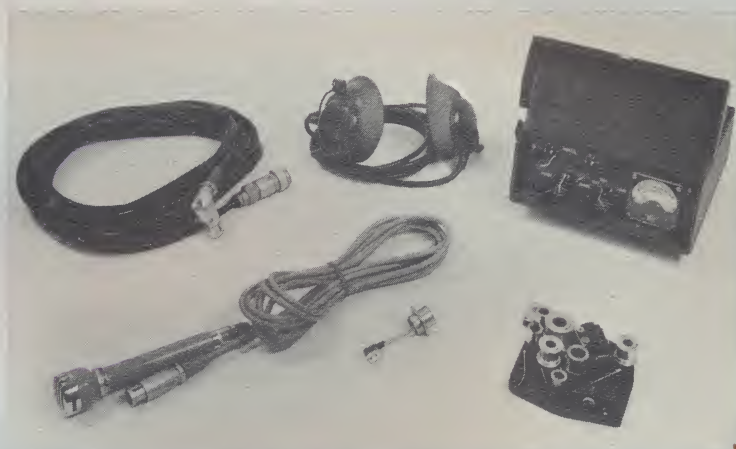
Operated as a single system camera, the 16BL combines superior sound, outstanding portability, speed and economy with Arriflex's famous picture quality. Arri single system sound quality is surprisingly close to the more elaborate double system set-up. All these advantages make the Arri single system camera ideal for those difficult filming situations and remote location assignments where the use of involved sound equipment would be impractical—news, candids, documentaries, education, industry, science and TV.

Performance characteristics include broad range frequency response to 8kc, excellent "flutter" and "wow" characteristics dual microphone inputs with individual gain control, speech/music selector switch, monitor direct or from playback head, simple, rapid threading and fast, reliable operation. Arriflex 16BL convertibility is a major design feature, providing universal capability that can contribute significantly to efficient, economical film production.

†Serial No. 50171 and higher



The Arri Single System Sound Module combines optimum head contact and excellent stability, by means of the Arri high-inertia sound drum. Film threading, as illustrated, is quick and easy.



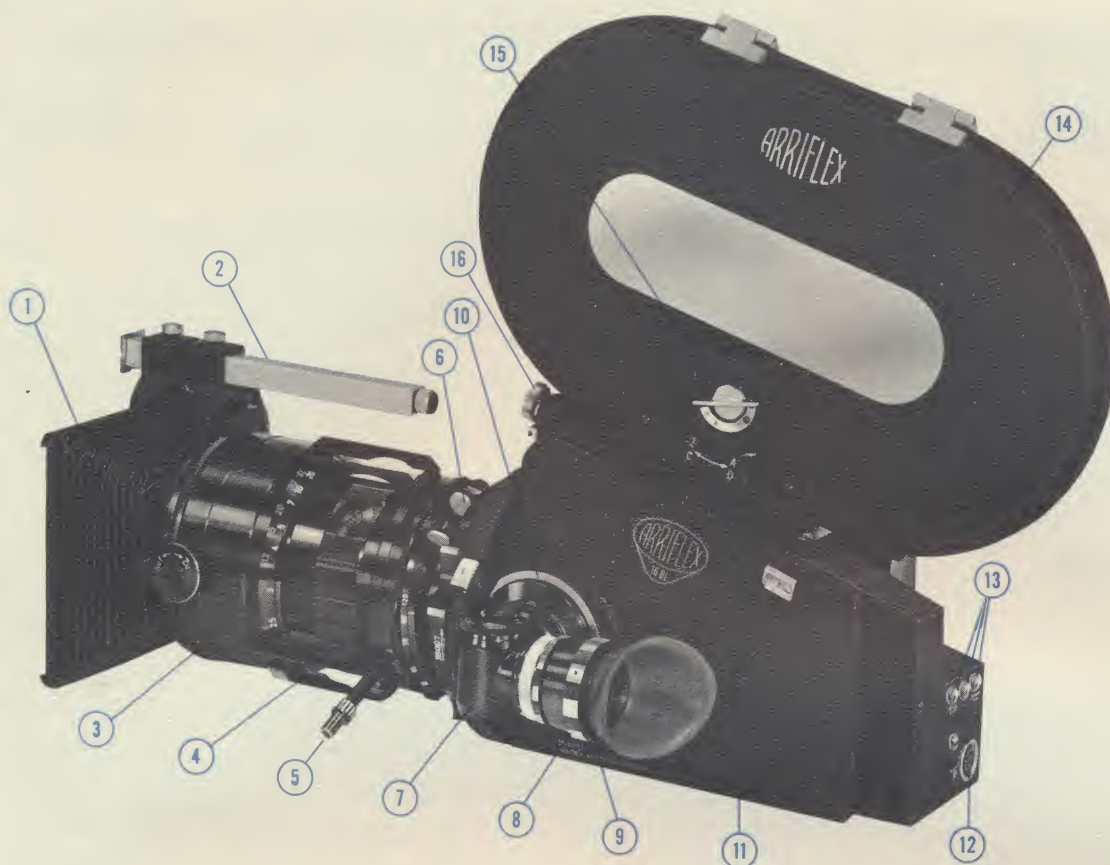
The major components required in the Arriflex 16BL single system sound conversion are shown above. The 16BL may be converted to single system sound, or back to double system sound by the cameramen in the field without special tools.

DOUBLE SYSTEM magnetic sound

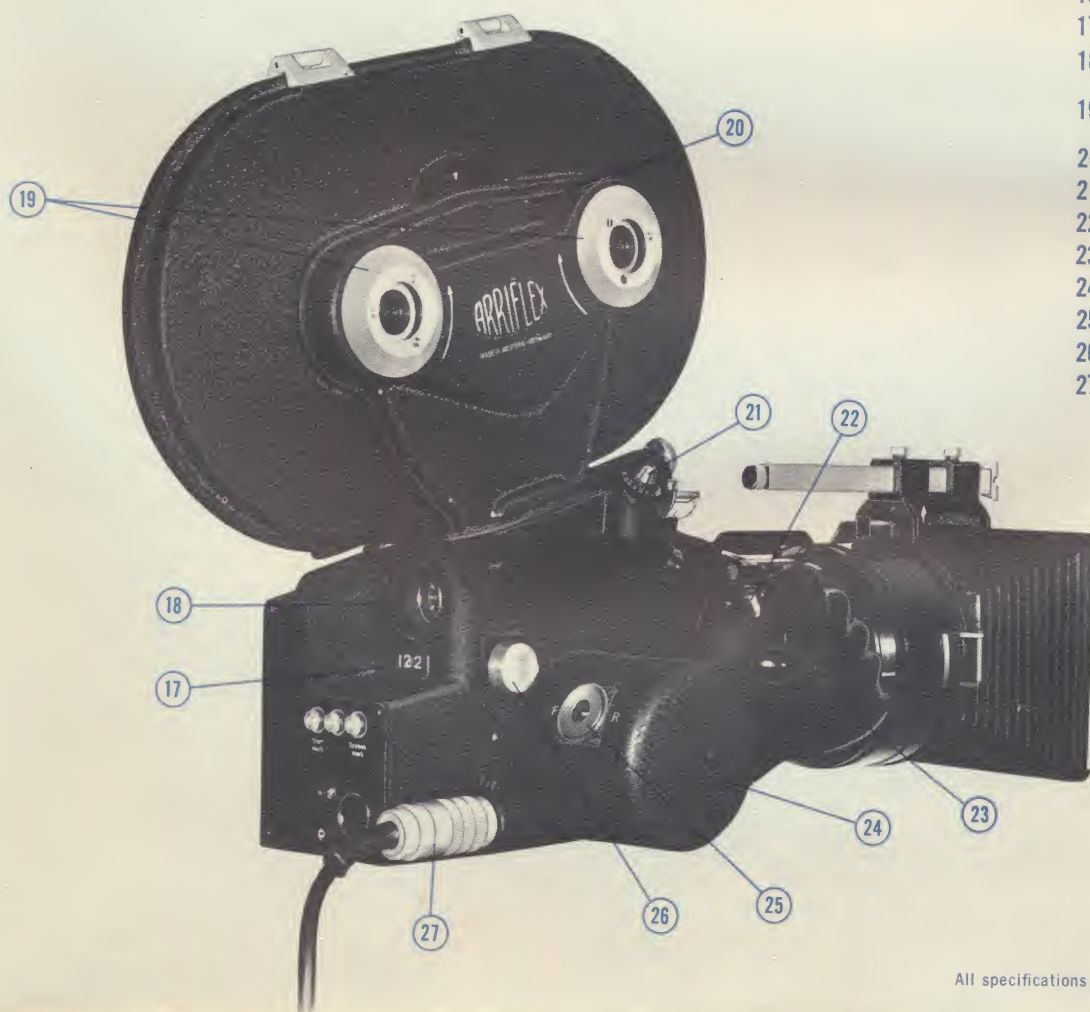
For location double system recording, the 16BL may be fully equipped. Standard equipment includes a signal generator with a 60-cycle output that matches every 1/4-inch tape system in the business—Rangertone, Pilotone, Neo-Pilotone, etc. Options include an electric clap-stick system that makes start marks on picture and track completely automatic—perfect for news, documentaries, candids, and wherever conventional clapsticks cannot be used. Combined with any fine tape recorder, the new Arri 16BL is the answer to the professional demand for top quality, no compromise, location sync sound. In any double system, sound-tape or sound-film, it provides the invaluable attributes of flexibility, efficiency and rugged reliability.



Shown at the rear of the Arri 16BL are the vitally important Arri tachometer and footage counter. Inclusion of these essential indicators in the 16BL are representative of Arri "no compromise" design and construction.

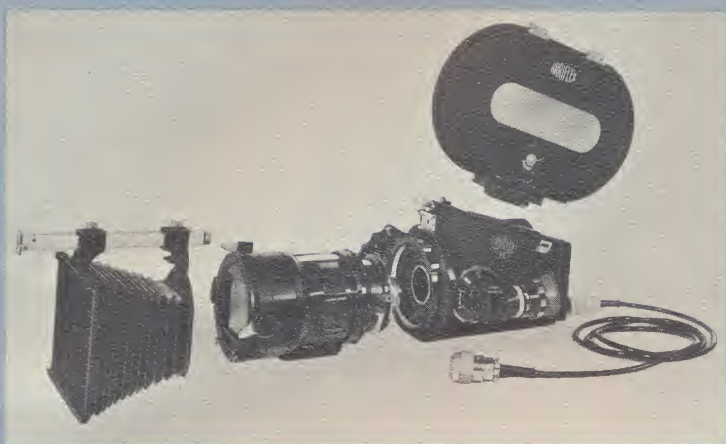


1. Adjustable matte box
2. Matte box beam
3. Special blimped 12-120mm Angenieux zoom lens
4. Zoom lens focusing grip
5. Zoom lever
6. Finger-grip for diaphragm adjustment
7. Adjustable finder
8. Finder diopeter adjustment
9. Eyepiece with auto-closure mechanism and snap-on eye cup
10. Camera cover lock
11. Camera cover
12. 60 cycle sync pulse outlet
13. Start mark, running, and scene marker lamps
14. BL-400 ft. magazine with hinged cover
15. Magazine cover lock and safety latch
16. Magazine retaining lock
17. Professional footage counter
18. Professional tachometer, calibrated in fps
19. Knurled, spring-loaded take-up knobs
20. Magazine mechanism coverplate
21. Camera inching knob
22. Main stop-start switch
23. Anatomical hand grip
24. Main drive motor assembly
25. Recessed forward-reverse switch
26. Footage counter reset button
27. Main power cable

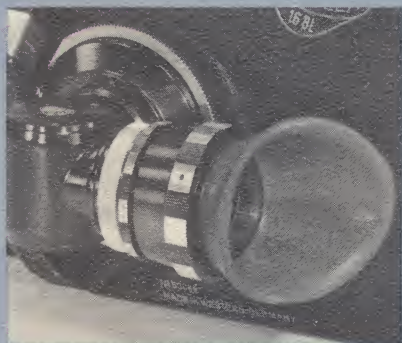


All specifications subject to change without notice.

The one right camera—providing the cinematographer with the most wanted and essential professional features for 16mm sync sound location filming.



Exploded view showing principle components: matte box, 12-to-120mm Angenieux lens, 16BL camera and 400' magazine.



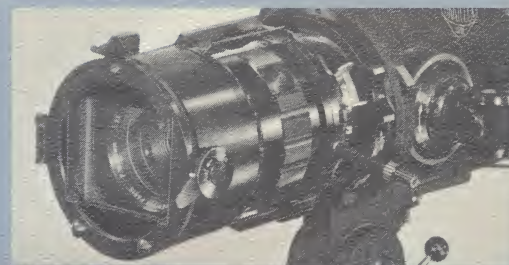
THE VIEWFINDER

of the 16BL is the type that Arriflex cameras have made famous — the mirror-shutter system, with the brightest, clearest image obtainable, plus significant new additions. Viewfinder eyepiece optics include adjustments on two axes, so that convenient viewing is possible at practically any camera angle.

MOTOR INTERCHANGEABILITY:

For economy, efficiency, and maximum utility, the 16BL is generally supplied with a 12-volt DC, transistorized governor-controlled motor. However, the Arriflex 16BL system incorporates complete professional interchangeability of drive motors. A 110-120-volt, 60-cycle, single-phase synchronous motor; a 12-volt DC, variable-speed motor; and a new-type, ultra-precise, crystal-controlled 12-volt DC motor... are all part of the new program. Together they provide the means for wild shooting, special effects, and the whole spectrum of professional shooting.

UNIVERSAL LENS:



The wide utility of the modern zoom lens dictated the lens selection for the 16BL. The design is based on accepted professional practice of using these highly-perfected lenses as universal lenses. The Arriflex 16BL uses a specially-mounted Zeiss 12.5-to-75mm f.2 Vario-Sonnar, or a 12-to-120mm f.2 Angenieux, as the prime lens. Other similarly mounted zoom lenses and provision for wide-angle and telephoto lenses will be available soon. The special housing of the zoom lenses prevents camera noise radiation. The front part of the lens housing is a standard 3x3 glass, which may be either clear glass or filter. All three lens controls—diaphragm, focal length, and focus—are all activated from the outside, with extra-large, easy-to-operate settings.

AUTO-CLOSURE EYEPIECE

is standard equipment on the Arriflex 16BL. A shuttering device opens under slight pressure, and closes on release. It prevents stray light from entering the finder system. The closure mechanism can be locked open if desired.

INTERCHANGEABLE GROUND GLASS:

A modified finder system puts the ground glass farther front in the optical system, so that the 16BL ground glass can be interchanged by the cameraman in the field, without special tools or gauges. Interchangeable, format-etched ground glasses, showing projector aperture or TV safe-action area, are optional accessories.

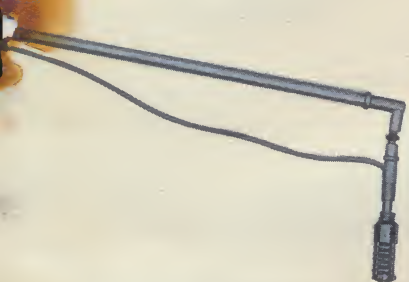
OPTIONS AND ACCESSORIES

for the 16BL immediately available include: BL matte box ■ BL 400-ft. self-blimped magazines ■ accessory lenses ■ automatic electric claspstick ■ 12-volt transistorized, governor-controlled motor ■ 110-volt, 60-cycle, single-phase sync motor ■ 1-kc oscillator for soundtrack start marker ■ cases ■ power supplies ■ tripods ■ and other items.

Additional options available late 1966: BL-1200-ft. self-blimped magazines ■ built-in, semi-automatic exposure meter ■ and, as original equipment, factory-installed dissolving shutter.

SPECIFICATIONS: (With BL-400-ft. magazine, matt box, 12-to-120mm Angenieux lens, and 12-volt DC governor-controlled motor)

Overall Dimensions: 21" long x 10½" wide x 15¾" high ■ **Weight:** 20 pounds
Residual Noise Level: Approximately 31 db



**rugged
and fast
handling... precise
and more versatile
than ever... compact
and portable...
and now —**

Quiet

**to meet
the needs
of 16mm location
sync-sound filming**

THE *Quiet* ONE

How did Arri engineers produce the 16BL—a **quiet** camera, so rugged, reliable and versatile that **right from the start it is the one right camera** for 16mm synchronous sound location filming?

The answer is there in its design, of course—a special and different design in which the famous Arri cam-driven registration and mirror shutter reflex viewing system is acoustically isolated in the camera body casting. It's a new, self-blimped camera design. New...yet eminently Arriflex...with the most thoroughly coordinated handling features of the 16mm lot. A design that retains the best in operating simplicity, versatility, and above all, in rugged Arriflex reliability.

THE *Quiet* RUGGED ONE

Development of the Arriflex 16BL raised more than a few difficult design questions. How to **quiet** the camera? Sacrifice the rugged movement to quiet the camera down? Or keep the ruggedness intact, and work around it acoustically? With its world-acclaimed camera drive and an equally famous reflex viewfinder, Arriflex had years ago set the style for today's filming techniques. What, if anything, was to be sacrificed in the development of this new-breed **quiet** Arriflex?

It takes ruggedness at its heart to build a camera that gives the filmmaker the reliability he's paying for. And this is where the 16BL is different—vitally different—because the 16BL is built around the unique Arriflex mirror-shutter and registration pin movement.

The mirror-shutter reflex system was pioneered and perfected by Arriflex. It has been copied many times...but never surpassed. And yet, the true heart of the Arriflex 16BL is the rugged cam-driven film transport and registration system. Its ruggedness and precision are unique beyond imitation. The enduring precision of this mechanism is the natural outcome of every component's precise machining and minute tolerances. It is the result of exhausting technical research and development. The pulldown claw is activated by a precision dual-cam—the registration pin acts directly off a cam-groove machined into solid metal. This is not a stop-pin nor a film-activated follower-pin but a true pin-registration movement.

Precision? Every frame of film is located and registered...locked in place with a precision limited only by the accuracy of the film's perforation pitch itself. Durable? Costly, difficult-to-produce cam-drives are capable not only of high precision—they provide the most **durable** drive that can be devised. **Precision plus durability:** Arriflex 16S and 16M cameras with the identical cam-driven movement have rolled hundreds of millions of feet of film! Many individual Arriflex 16 cameras have seen action well past the million-foot mark...and they're still going strong,

delivering sharp, steady, top-quality footage in production after production. Precision plus durability, plus proven reliable performance. That's where Arriflex 16BL ruggedness begins.

THE *Quiet* RELIABLE ONE

Arri 16BL rugged reliability begins with the camera and extends to the entire system. Take the Quick-Change magazine system of the 16BL. It is the result of 30 years' experience in film-handling systems. Arri 16BL magazines are gear-driven and sprocketed, very much like the Arriflex 35 and 16M magazines. Pre-loaded and pre-threaded in the darkroom, the magazines are equipped with their own feed and take-up sprockets. Why this construction? **Because it combines the best of quick-change speed and reliability.** This is the system in which the **entire** film gate—aperture, side pressure rail, rear pressure pad, all remain in the camera head. Important? **It puts the entire film gate safely in the camera head** for maximum precision and maximum reliability. The Arri Quick-Change magazine system does not “buy” speed at the price of reliability. It's economical, too! 16BL magazines are self-blipped, with a drive mechanism fully isolated from the magazine chamber—yet sensibly priced. That's an important consideration for the filmmaker who must have a complement of magazines.

Then, there's the film gate itself. The same gate used and proven in Arri 16S and 16M cameras. Extra long, to provide optimum film flatness—with spring-loaded side-pressure rail, cross stage support, and balanced rear pressure plate. All parts fabricated from stainless steel, hard-chrome plated, ground and hand-lapped, to ensure that the film will always lie precisely and reliably in the focal plane... for sharp, steady pictures.

THE *Quiet* VERSATILE ONE

The Arriflex 16BL is no one-technique camera. Its versatility starts right in the camera's configuration—the classic Arriflex shape that puts the parts where they do the working cameraman the most good, and where they provide maximum usefulness. The Arriflex 16BL comes closest to making a fully-equipped professional motion picture camera act as the dynamic extension of a man's hands and eyes.

Hand-held or tripod-supported? The Arriflex 16BL lets the **filmmaker** choose! The 16BL's configuration is the right one—the one that provides a substantial flat base and low center of gravity, essential for professional tripod mounting. And with its matched Arriflex body brace, the 16BL provides mobility and freedom—a well-balanced, easy-handling match for any filming style, traditional or verité. That's versatility!

NOTHING SACRIFICED... EVERYTHING GAINED

So the biggest of the design decisions was an absolute “No!” to compromise. There would be no compromise with reliability—there would be no sacrifice of professional features. The Arriflex 16BL was to be a cameraman's camera.

Take the tachometer—standard on every Arriflex ever built—yet conspicuously absent on other makes. It would have been easy to compromise and eliminate the tach (one less noise-producing element to contend with!). But the working cameraman **needs** that control—the assurance that his camera is running to speed. So the tachometer had to stay.

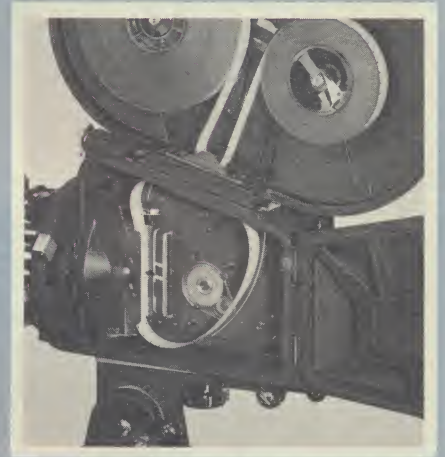
Frame and footage counters, too. Important? Indispensable is more like it. They're still standard on the Arriflex 16BL... along with the other essentials that seem to go with the Arri trademark itself. You won't find any sacrifice of the essentials in this new-breed, **quiet** Arriflex 16BL. The vital tachometer and frame and footage counters would never be eliminated... just silenced in an acoustical shield.

The Arriflex 16BL was designed for exacting location work—to provide every professional necessity, to be light and compact, and to be quiet. Not only quiet, but to be Arri-rugged and Arri-reliable as well. To achieve this, the entire cam-driven registration movement, magazine drive-gear train, tachometer, footage and frame counters, film gate, lens mount and reflex finder—are all built onto a single, heavy-duty plate. This is the 16BL's heart, fitted into a compact, sound-insulated camera body. The complete camera, with governor-controlled motor, 400-ft. magazine, and self-blipped 12-to-120mm Angenieux zoom lens, weighs just 18 pounds. It handles and balances beautifully for hand-held, body-braced shooting. The residual noise level is approximately 31 db, to meet the most critical location synchronous-sound requirements. And it's an Arriflex through and through... without compromise, with all the sound filming advantages that could possibly be built into one great 16mm camera.



ARRIFLEX® 16BL

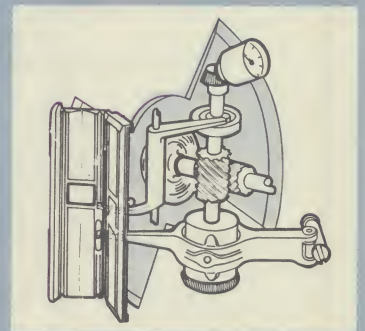
RUGGED · RELIABLE · VERSATILE



Arriflex 16BL simplified film path and gear-driven, sprocketed magazine system combines speed, accuracy and maximum reliability.



Rear View of the Arri 16BL shows outlet for 60-cycle Rangertone/Pilotone sync signal, and marker lights which are part of Arri Automatic Clap-Stick and Cue Marker systems.



Schematic illustration shows Arri Mirror-Shutter, Cam-Driven Pull-Down and Registration Pin system. This performance-proven, unique mechanism is the "heart" of Arriflex 16BL precision, durability and reliability.

Arri 16BL and 400' magazine shown with special 12.5-75mm F2 Vario-Sonnar Zoom Lens



the *Quiet* one

the versatile
ARRIFLEX® 16BL

CONVERTIBLE
for
SINGLE SYSTEM
and/or
DOUBLE SYSTEM
magnetic sound



The Arriflex 16BL's capabilities for location synchronous sound sets it apart from all other cameras. The 16BL provides the cinematographer with *full* sound capability: *double system—single system—either or both!* The 16BL is *convertible*. It provides for either high quality single system or double system sound by the simple expedient of adding or removing the Arri Recording Module*. The 16BL is built for—and is totally dedicated to—the requirements of all location synchronous sound filming.

*Convertible in the field by the user via three retaining screws.



October 1, 1966 Revised/2

ARRIFLEX 16BL PRICE SCHEDULE

(prices and specifications subject to change without notice)

Order Code	Description	User Net Price \$
CAMERAS		
301 009	ARRIFLEX 16BL, Self-Blimped, Lightweight, Professional 16mm camera, "Sound Convertible" for Double System/Single System recording (equipped to accept plug-in Single System Magnetic recording module, available as optional accessory—see below); Built-in 60 cycle control signal generator and running light; with Arri Precision Registration Pin movement; Arri Mirror Shutter Reflex Finder System and with provision for interchangeable ground glass; Designed for BL 400' and BL 1200' quick-change gear driven sprocketed magazines; with special Blimped F2.2 T2.5 Angenieux 12-120 lens; special Automatic Closure Eyepiece; Priced WITHOUT MAGAZINE, MOTOR, MATTE BOX, AUTOMATIC CLAPSTICK, OR SINGLE SYSTEM RECORD MODULE.....	4480.00*
301 010	ARRIFLEX 16BL CAMERA, same as above, but with Carl Zeiss F2 Vario Sonnar 12.5mm-75mm Zoom lens in place of Angenieux lens.....	4330.00*
301 011	ARRIFLEX 16BL CAMERA, same as above, but with Angenieux 9.5-95mm Zoom lens in place of Angenieux 120 lens..... *Reference prices only—Camera sold only with Automatic Electric Clapstick (Factory installation), motor, matte-box and magazine.	To Be Announced
AUTOMATIC SLATING SYSTEM		
339 359	Automatic, Electric Clap-stick, with manual Scene-Marker device—factory installed—(addition to price of camera).....	240.00
339 361	Oscillator for 1 kc start-mark tone (essential for tape recorders not equipped with start-mark oscillator)..... Installation of oscillator above.....	180.00 25.00
339 356	Start Mark Lamps, matched set, for Full Frame Marking. (Replacement).....	8.80
339 357	Start Mark Lamps, matched set, for Edge Marking. (Replacement).....	8.80
339 465	‡Connecting cable, carries 60 cycle Control Signal from Camera (Arri 16S-GS, 16M, 16BL, 35 IIC-GS) to Nagra NPH; 25 feet, complete with connectors.....	30.00
339 431	5-pin Tuchel Plug, male, with locking ring (Replacement).....	4.50

‡This product is Made in U.S.A.

MATTE BOX

339 001	Matte Box, adjustable, for Special Blimped Model 120 Angenieux or Special Blimped model 75 Vario Sonnar.....	96.00
339 003	Matte Box, adjustable, for special blimped model 95 Angenieux lens.....	To Be Announced

MAGAZINES AND ACCESSORIES

339 214	BL 400 ft. special quiet, gear driven, quick-change magazine, darkroom load, operates forward and reverse. Also accepts 200 ft. daylight spools. Complete with loop Protector.....	360.00
339 215	Converted 1200 ft. quick-change magazine with gear drive and sprockets, coaxial double compartment (non-blimped type—for use where noise level is not critical). Complete with a loop protector.....	640.00
339 205	Camera Magazine Opening Cover. (Replacement).....	10.00
339 229	Film Loop Protector for Arri 16BL Magazine. (Replacement).....	6.00
339 204	Collapsible Core for 16BL Magazines. (Replacement).....	10.00
339 201	Regular Core Adapter for Magazine. (Replacement).....	6.00
321 505	Sound Barney, white, for BL 400 ft. magazine—reduces noise level approximately 1-2 db. Also useful for reflecting sunlight.....	28.00
321 506	Sound Barney, black, for BL 400 ft. magazine, as above.....	28.00
321 507	‡Sound Barney, white, for Converted 1200 ft. magazine.....	80.00

SINGLE SYSTEM RECORDING

334 000	Arriflex Single System Magnetic Recording Plug-in Module for Arri 16BL camera. Includes Record and Playback heads, extra large flywheel, pre-aligned record/playback heads, miniature socket and plug, with connecting wiring harness (less Amplifier).....	880.00
334 001	Arri Recording Amplifier, all Solid State with Automatic Gain Control; two microphone inputs with individual gain controls; line input; speech/music switch, direct/playback monitor switch. Complete with leather case and shoulder strap (microphone and headset not included).....	1525.00

MOTORS

339 391	Governor Controlled Motor, Transistorized, 12V DC for Arriflex 16BL.	360.00
339 390	‡Dom Synchronous Motor, 110-120V 60 cycle AC, single phase, for Arriflex 16BL; complete with cable and DC module for Automatic Electric Clap-stick	576.00

‡This product is Made in U.S.A.

CARRYING CASES

332 015	Deluxe Compartment Case, accepts Arriflex 16BL with mounted BL lens and BL 400 ft. magazine; space for one additional magazine; heavy gauge, hammered aluminum exterior, fabric lined interior.....	168.00
332 027	Deluxe BL 400 ft. Magazine Case; holds four BL 400' magazines. Hammered aluminum exterior, fabric lined interior.....	140.00
332 025	Fibre case, lined and fitted for one 1200 ft. magazine.....	44.00

BATTERIES

331 012	‡Nickel-Cadmium Battery, 12V, sealed cells, 3AH, with special miniaturized transformer, full wave charger. Size: 5" x 2 $\frac{3}{4}$ " x 8 $\frac{1}{4}$ " high, weight: 5.4 lbs.: Approximate footage: 2000 ft.....	240.00
331 030	Dryfit "Slimline" Battery for Arri 16BL, 12 volt 2.6AH. Size: 4 $\frac{1}{4}$ x 2" x 9 $\frac{1}{2}$ " high, weight: 3.6 lbs. Approximate footage: 2000 ft.....	76.00
331 031	Dryfit "Extra Duty" Battery, 12 volt, 5.2AH. Size: 4 $\frac{1}{4}$ " x 3 x 9 $\frac{1}{2}$ " high, weight: 6.4 lbs. Approximate footage: 5000 ft.....	112.00
331 032	Dryfit "Special" Battery for use with Arri Shoulder Pod/Body-Brace camera support; 12 volt, 2.6AH. Size 4" x 3" x 4 $\frac{1}{2}$ " high, weight: 3.6 lbs. Approximate footage: 2000 ft.....	79.50
331 055	Dryfit, Transistor-Controlled Automatic-Charger, for all Arriflex Dryfit Batteries. Size: 3" x 3" x 8" long, weight: 4.3 lbs. Maximum output 1.4 amps; inputs 100, 125, 220, 250 volts, 50-60 cycle AC.....	148.00

CABLES

339 423	6 ft. straight-cord power cable only, for Arri 16BL (with 12-pin Dryfit Battery Connector) Replacement	32.00
339 424	Coil-cord Power Cable only, 2 ft.-6 ft. for Arri 16BL (with 12-pin Dryfit Battery Connector)	39.50
339 425	"Shorty" Power Cable, 1 $\frac{1}{4}$ ft., for Arri 16BL, for special Dryfit Battery Cat. #331032, for use with Arri Body Brace.....	32.00

BODY BRACES — CARRYING HANDLES — TRIPODS

341 153	Body Brace combination, folding, with Pistol Grip. (May be also used with Arri 16S/16M.)	149.50
341 154	Body Brace, with $\frac{3}{8}$ " camera retaining screw only (No Pistol Grip).....	124.50
341 155	Pistol Grip only, with trigger release for use with Body Brace only.....	32.00
341 156	Carrying Handle, detachable, for Arri-16BL; mounts in camera accessory shoe	32.00

‡This product is Made in U.S.A.

(Continued)

Order Code	Description	User Net Price \$
341 101	Arri Model 16 Tripod only, less pan-head.....	\$108.00
341 110	Arri 16 "Shorty" Tripod only, less pan-head.....	92.00
341 103	Gyro head only, with Pan and Tilt Gyro movement..... For use with Arriflex 16 Tripods #341 101 and #341 110	695.00

FILTERS, CLOSE-UP LENSES AND ACCESSORIES

The Arriflex 16BL specially housed zoom lenses accept standard 3" square filters.

FILTERS FOR BLACK AND WHITE FILMS: The following original Arri 3" square filters are optically flat, dyed in the mass glass.

333 100	Medium Yellow Filter	13.50
333 101	Red Filter	13.50
333 102	Green Filter	13.50
333 051	Special clear glass, 3" square (replacement).....	24.00
	ARRI POLARIZING FILTER	
333 050	Polarizing Filter, in rotating mount.....	86.00

FILTERS FOR COLOR FILM

333 109	‡#85 filter, for use with Type A Kodachrome II and Anscochrome 3400K Cine films in daylight.....	12.50
---------	--	-------

OTHER COLOR FILTERS ARE AVAILABLE ON SPECIAL ORDER

NEUTRAL DENSITY FILTERS

333 104	ND .3 Transmission 50% Factor 2.....	24.00
333 105	ND .6 Transmission 25% Factor 4.....	24.00
333 106	ND .9 Transmission 13% Factor 8.....	24.00
333 107	ND 1.2 Transmission 6.5% Factor 16.....	24.00

DIOPTER CLOSE-UP LENSES

311 910	+1 Diopter close-up lens for Arri 16BL Angenieux Model 120 lens.....	24.00
311 911	+2 Diopter close-up lens for Arri 16BL Angenieux Model 120 lens.....	24.00

MISCELLANEOUS ACCESSORIES

339 110	Foam Rubber Eye cushion to fit over eyecup.....	3.00
339 115	Snap-on Rubber Eyecup Assembly only, with cover-door and machined recess for 15.5mm Spectacle lens (Replacement).....	18.00

‡This product is Made in U.S.A.

"ARRI" and "ARRIFLEX" are trade marks registered with U. S. Patent Office and recorded with U. S. Customs at all ports of entry to prevent unauthorized importation.
All prices f.o.b. New York. Shipping charges additional

SOLE U.S. DISTRIBUTOR

ARRIFLEX
CORPORATION OF AMERICA

25-20 Brooklyn-Queens Expressway West
Woodside, N. Y. 11377
826 North Cole Avenue, Hollywood, Calif. 90038